STAROSTENKO, N.T.; DROBINSKIY, I.R.; ZAKHAROVA, T.A.; KOROVINA, T.V.

Comparative clinical characteristics of A and B type infectious hepatitis (Botkin's disease). Trudy Kish.gos.med.inst. 1:9-20 (MIRA 16:2)

l. Kafedry fakul(tetskoy terapii, gospital'noy terapii i infektsionnykh bolezney Kishinevskogo gosudarstvennogo meditsinskogo instituta. (HEPATITIS, INFECTIOUS)

VORONIN, A.V., kand. tekhn. nauk, otv. red.; ZAKHAROVA, T.A., red.

[Technical and economic problems of developing transportation; transactions of the conference of young specialists] Tekhniko-ekonomicheskie voprosy razvitiia transporta; trudy konferentsii molodykh spetsialistov. Moskva, In-t kompleksnykh transportnykh problem. No.6. 1964, 195 p. (MIRA 18:4)

ZAKHAROVA, T.A., dotsent; TROSHENKO, L.S., vrach

Occupational pathology in the production and use of polyvinyl chloride plastics. Trudy KCMI no.10:27-30 '63.

(MIRA 18:1)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. kafedroy dotsent A.N.Kushnev), Kalininskogo gosudarstvennogo meditsinskogo instituta.

TERMOLAYEV, P.S., kand.tekhn.nauk; ZAKHANOVA, T.A., inzh.

Greation of multiple-chamber hydraulic sizers for fractionation of sand. Stroi. i dor. mash. 8 no.5:22-25 My 163. (MIRA 16:5)

(Sieves)

MEL'NIKOV, B.N.; KRASNOVITSKIY, B.M.; MORYGANOV, P.V.; ZAKHAROVA, T.D.

Relation between the structure of aso dyes (oxa- and thiodiazol derivatives) and the rate of their diffusion in copper rayon fibers.

Izv.vys.ucheb.zav.; tekh.tekst.prom. no.6:120-124 '60.

(MIRA 14:1)

1. Ivanovskiy khimiko-tekhnologicheskiy institut i Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.

(Dyes and dyeing--Rayon)

(Aso dyes)

OF CHARACTER FREEZING THE PRESENT OF THE PROPERTY PRESENTATION OF THE PROPERTY OF THE PROPERTY

SHCHEGOLEVA, R.M., kand.tekhn.nauk, nauchnyy sotrudnik; ZAKHAROVA, T.D., inzh., nauchnyy sotrudnik

Effect of light weather on fabrics manufactured from a cotton and lavsan blend. Tekst.prom. 22 no.10:61-64 0 '62.

(MIRA 15:11)

1. Ivanovskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti (IvNITI).

(Textile fabrics—Testing)

(Dyes and dyeing—Textile fibers)

ZAKHAROVA, T.D., inzh., nauchnyy sotrudnik; SHCHEGOLEVA, R.M., kand. tekhn.
nauk, nauchnyy sotrudnik

Single-bath process for dyeing and finishing cotton fabrics. Tekst.

(MIRA 17:6)

prom. 24 no.4:54-56 Ap '64.

1. Ivanovskiy nauchno-issledovatel'skiy tekstil'nyy institut

(IvNIT1).

ZAKHAROVA, T.D.; MORYGANOV, P.V.

Combining the dyeing of fabrics with active dyes with their finishing uith thermosetting regims. Izv. vys. ucheb. zav.; tekh. tekst. prom. (MIKA 18:5) no.1:111-116 '65.

1. Ivanovskiy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti khimiko-tekhnologicheskiy institut.

ZAKHAROVA, T.D.; MORYGANOV, P.V.

Studying the efficiency of the action of various precondensates in the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebin the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing and finishing process. Izv. vys. uchebing the combined dyeing dyeing the combine

1. Ivanovskiy nauchno-issledovatel skiy institut khlopchatobu-mazhnoy promyshlennosti i Ivanovskiy khimiko-tekhnologicheskiy institut.

ZAKHAROVA, T.; CHUMAKOV, A.

Review of the diseases of industrial crops. Zashch. rast. ot (MIRA 18:6) vred. i bol. 10 no.5144-45 '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

LAPTEV, Yu.P., starshiy nauchnyy storudnik; ASSAUL, B.D.; KOVALEV, N.V., kand. sel'skokhoz. nauk; ZAKHAROVA, T.I., mladshiy nauchnyy sotrudnik; MAMAYEVA, Kh.P.; DUBINEVICH, B.N., starshiy nauchnyy sotrudnik

Brief information. Zashch. rast. ot vred. i bol. 9 no.9:54-56 '64. (MIRA 17:11)

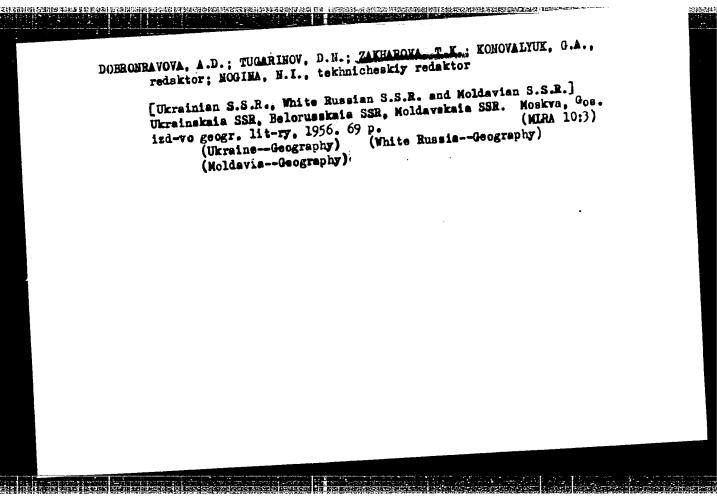
1. Zaveduyushchiy laboratoriyey fitopatologii Vinnitskoy oblasti (for Assaul). 2. Maykopskays. opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta rasteniyevodstva (for Kovalev). 3. Vsesoyuznyy institut zashchity rasteniy (for Zakharova). 4. Moskovskiy pedagoginstitut zashchity rasteniy (for Zakharova). 5. Mironovskaya cheskiy institut imeni V.I. Lenina (for Mamayeva). 5. Mironovskaya selektsionnaya stantsiya (for Dubinevich).

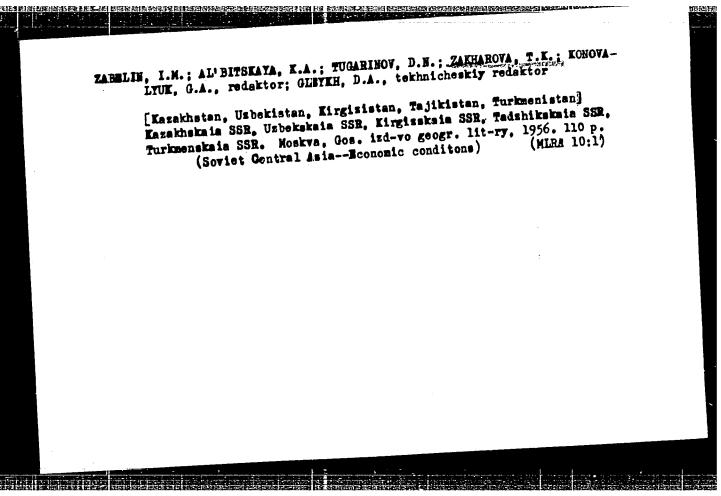
ZAKHAROVA, T. I., Cand of Med Schame Dynamics of Albumin Components of the Blood
During Organic Diseases of the Stownch," Alma-Ata, 1959, 15 pp (Kazakh State Medical
Institute) (KL, 7-60, 110)

ZAKHAROVA, T.K.; LYUBIMOV, I.M., red.; KOBOVALYUK, I.K., mladshiy
red.; KOSHRIEVA, S.M., tekhn.red.

[White Russian S.S.R.] Belorusskaia SSR. Moskva. Gos.
(White Russia)

(White Russia)



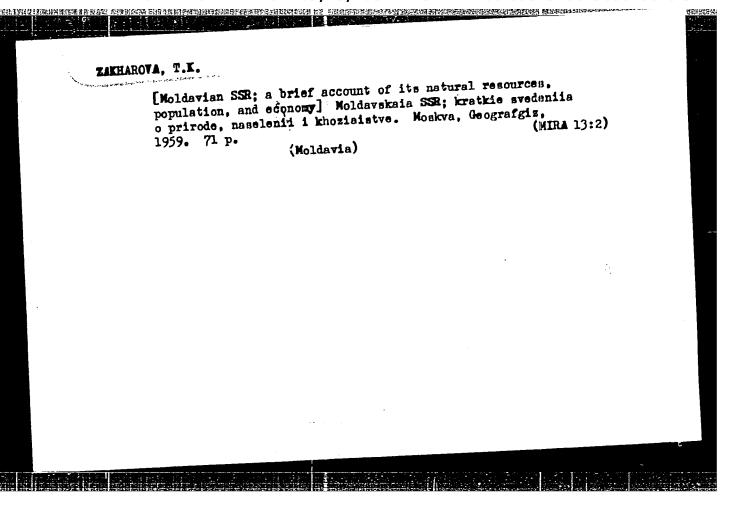


ZAKHAROVA, T.K.; TUGARIHOV, Dmitriy Nikolayevich, ; RODOMAN, B.B., red.;

MCGIFA, E.I., tekhn. red.

[Tajik S.S.R.] Tedshikaka ia SSR. Moskva, Gos, isd-vo geogr. lit-ry,
[1958. 63 p. (Tajikistan)

(Tajikistan)



l. Institut geologii i geofiziki Cibirskego otdeleniya AN SSOR, Hevesibirske	l. Tratibut geologii i geofiziki Sibirakogo Stasiemya A. Nevosibirak.	•	A STATE OF THE PARTY OF THE PAR	Realization of the algorythm in the construction of the connection Realization of the algorythm in the construction of the connection Realization of the algorythm in the construction of the connection Realization of the algorythm in the construction of the connection Realization of the connection Realization of the connection Realization of the connection (MIRA 18:8) digital computer. Gaula is geofice no.5:173-108
				1. Instibut geologii i geofiziki Cibirakego Stasteniya ka
			į	
			•	

UR/0271/65/000/002/B051/B051 L 1855-66 ACCESSION NR: AR5008456 681.142:001.55

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika.

Svodnyy tom, Abs. 2B284

AUTHOR: Zakharoya, T. L.

TITLE: Programs for selecting optimal form of connection and for joint analysis of gravitational and magnetic anomalies on digital computers

CITED SOURCE: Sb. Issled. statist. i funktsional'n. lineyn. svyazey v

gravirazvedke i magnitorazvedke. Novosibirsk, 1963, 108-120

TOPIC TAGS: digital computer, gravitational anomaly, magnetic anomaly

TRANSLATION: In the course of interpretation of geophysical and geological data, a necessity arises for clarifying the nature of connection between two geological or geophysical quantities influenced by several factors, i.e.,

 $\varphi = \varphi(x_1, x_2, ..., x_n, z_1, z_2, ..., z_n),$ where for the functions f and φ , the factors x_i are common while the factors y_i

Card 1/3

L 1855-66 ACCESSION NR: AR5008456

and z; acting only upon one function are specific. With this connection, a number of values of the function f correspond to each value of φ . Having distribution series of the function f available, a line of regression can be drawn which shows how, on the average, one function varies with the variation of another. Analytically, the regression equations can be expressed as parabolic, hyperbolic, logistic, or exponential connection. Finding the form of connection between the distributions of two random quantities includes a reasonable selection of a theoretical regression line (type of equation) and calculation of optimal numerical parameters that enter the selected equation. A program is described for selecting optimal form of connection and for calculating optimal numerical parameters of the regression equations on a digital computer. The program comprises a number of blocks according to a translated algorithm of solution. Preparation of materials for computing includes approximate correlation-field determination of the degree of polynomial for the first regression equation and determination of the maximum number of function values which can be placed into the computer internal storage. As a practical example, the results are reported of an analysis of variation of density of the sedimentary rock of Mesocenozoic

Card 2/3

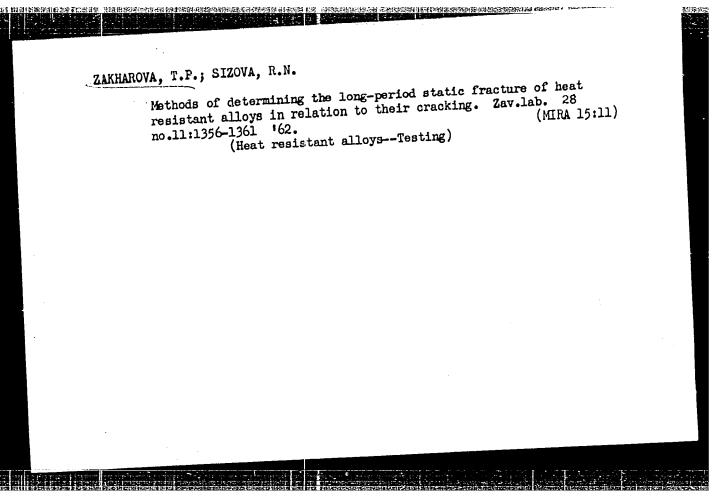
ા પ્રાપ્ત સમ્મી •જ વ્યવસો∳લંધ્	And the same							
•	•	•						A .
ь 1855-6	66			•				0
L LODD	ION NR:	AR50084	56				اگھ المحالات	
HOOME		L with th	ne depth of bed.	Also, alg	orithms a	COBSD 97	dod for	
West-Si	berian sia	go with the	ne depth of bed. onal and magnet old division in	tic anomali	os which a	re inten	untain a	roas
joint an	Alysis of t	gravitation	onal and magner old division in lng this algorit	platform re	gions and	MESTIL	A achan	ne of
solving	the problem	aunnivi	eld division in ing this algoritions	hm to the di	igital com	outer.	n scho	
and a p	rogram 10	ir suppry. Honal pro	ing this algorit ograming is giv	ven. Bibl.	2, figs. 2	,		
	• · · · · · · · · · · · · · · · · · · ·			ENCL:	00			1
SUB CO	DE: DP	, ES		21.02				
							¥	100
							+	
2571				,	ليوائل والمستوي	• •		
								. 1
	• •							
						•		
						•		
		•				•		
		•						
		•						
Card 3	dor	•						

PINEGINA, N. L.; MARCHENKO, V. I.; ZAKHAROVA, T. N.

Characteristics of the clinical course of chronic tonsillitis in connection with adenovirus and streptococcal infections. (MIRA 15:6)

Vest. otorin. no.3:27-30 '62. (MIRA 15:6)

(ADENOVIRUS INFECTIONS) (STREPTOCOCCAL INFECTIONS) (TONSILS—DISEASES)



: USSR Q Country : Farm Animals. Category Cattle. Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96866 : Guzhova, T. P.; Zakharova, T. P.; Kolpakova,* : Moscow Technological Institute of Meat and** Author : The Feeding of Calves with the View of Their Institut. Title Future Economic Utilization. Sb. stud. rabot. Mosk. tekhnol. in-t myasn. i molochn. prom-sti. 1958, vyp. 5, 112-114.

As young stock, 18-24 months old, was kept basically on coarse fodder and silage during the Orig Pub. Abstract stall period and subsequently fattened on pasture without additional feeding with concentrates, it reached a live weight of 520-530 kg. The carcass yield of young stock, 28 months old amounted to 52 percent. Card: T. P.; Molchanova, T. K.

ZAKHAROVA, Tat'yana Konstantinovna; KUZ'MINA, N.Ye., red.; GLEYKH,

B. A. Moskva, Gos.izd-vo

[The Moldavian S.S.R.] Moldavskaia SSR. Moskva, Gos.izd-vo

(MIRA 12:12)

geogr.lit-ry, 1959. (Moldavia)

ZAKHAROVA, T.N.; PAVLOVICHEVA, N.V.

Morphological changes in the tubular bones in rats in relation to the composition of their food ration in experimental prophylaxis and treatment of rickets. Trudy mol. nauch. sotr. (MIRA 16:11)

1. Iz pediatricheskoy kliniki (zav. prof. M.I.Olevskiy) i patomorfologicheskogo otdela (zav. prof. S.B.Vaynberg) Moskovskogo oblastnogo nauchmo-issledovatel skogo klinicheskogo instituta imeni Vladimirskogo.

×

s/137/60/000/012/030/041 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 12, p. 207,

29705

AUTHOR:

TITLE:

Patigue and Endurance Strength of Turbine Blade Alloys Under Condi-Zakharova, T.P.

tions of Joint Effect of Static and Alternating Stresses

PERIODICAL:

V sb.: Vopr. prochnosti materialov i konstruktsiy, Moscow, AN SSSR,

1959, pp. 123 - 143

The author studied fatigue and endurance strength of preliminary TEXT: The author studied ratigue and endurance strength of preliminary heat-treated $\frac{3}{4} - \frac{437}{4}$ (EI-437A), $\frac{3}{4} - \frac{617}{4}$ (EI-617) and $\frac{3}{4} - \frac{598}{4}$ (EI-598) alloys at heat-treated $\frac{3}{4} - \frac{437}{4}$ (EI-437A), $\frac{3}{4} - \frac{617}{4}$ (EI-617) and $\frac{3}{4} - \frac{598}{4}$ (EI-598) alloys at heat-treated $\frac{3}{4} - \frac{437}{4}$ (EI-437A), $\frac{3}{4} - \frac{617}{4}$ (EI-617) and $\frac{3}{4} - \frac{617}{4}$ under the simultaneous effect of static tension and alternating tension-compression. The tests were made on a strength wave performed on the same (600 t) pulsetors. (600 t) pulsator; control tests of endurance strength were performed on the same machine. During fatigue tests by tension-compression, the static tension stress was maintained constant to obtain fatigue curves; the tests were based on 20-50 million cycles. It is shown that the basic factors affecting the fatigue resistance

Card 1/2

CIA-RDP86-00513R001963610015-9" **APPROVED FOR RELEASE: 09/19/2001**

S/137/60/000/012/030/041 A006/A001

Fatigue and Endurance Strength of Turbine Blade Alloys Under Conditions of Joint Effect of Static and Alternating Stresses

are: the magnitude of maximum stresses of the cycle, the magnitude of static stress, temperature and time of tests. It was established that at a simultaneous effect of alternating and static stresses the nature of failure is determined by the level of static stress and the amplitude of alternating stress. Fatigue failure at the temperatures investigated occurs in the grains of the aforementioned alloys, breakdown from extended static load takes place along the grain boundaries. Transition from fatigue failure to extended static breakdown is determined by the exhaustion of service time resources of static stress. It is shown that permissible static stress, when alternating stresses are applied to the alloy, is determined from the endurance strength curve; the effect of alternating stresses is taken into account. There are 16 references.

Z. F.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

s/032/62/028/011/009/015 B104/B102

Zakharova, T. P., and Sizova, R. N.

Method of determining long-period static defects of heat-AUTHORS:

resisting alloys in relation to their cracking TITLE

Zavodskaya laboratoriya, v. 28, no. 11, 1962, 1356 - 1361

PERIODICAL:

TEXT: The tensile strength, the long-period tensile strength, and the Tatigue strength of 2M437A (EI437A) alloy specimens were determined after thermal treatment according to Ty (TU), both with and without previous cold hardening (stretching to 5 or 1%). The fractured surfaces of the tensiletest specimens were examined for cracks, by using a binocular microscope, in addition to which some of them were metallographically polished. Cracking were made evident by a widening of grain boundaries. Boundaries 0.05 - 0.1 mm wide were considered as cracks. On non-plated specimens such cracks appeared at 700°C and $\tau_{\rm H}/\tau_{\rm H}$ = 0.2 - 0.3; at 800°C, they appeared at $T_{\rm H}/T_{\rm H} = 0.3 - 0.4$; in the case of plated specimens at $T_{\rm H}/T_{\rm H} = 0.2$. \mathcal{C}_H is the time during which the specimens were kept at a certain tempera-Card 1/2

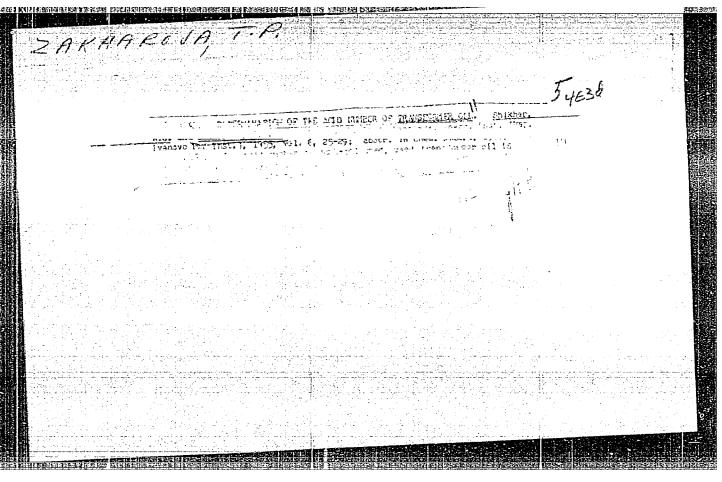
CIA-RDP86-00513R001963610015-9" **APPROVED FOR RELEASE: 09/19/2001**

Method of determining ...

S/032/62/028/011/009/015 B104/B102

ture and stress, T_H is the time until fracture. Thus cracking already begins in the early stages of the static experiment. It coincides with the beginning of the second stage of creeping and with the appearance of the first surface cracks. The results of tensile tests cannot be regarded as comparative criteria for the quality of the initial material and of a pretreated (cold hardened) material, since the relative variations of σ_B (yield strength) and S_k (tensile strength) of specimens with or without cold hardening are equallized by the action of long-time static loads. The long-period tensile strength was determined on 90617 (EI617) and 904376 (EI437B), besides EI437A, alloy specimens. The results show that material defects can be slowed down by suitable predeformation. Further, it is concluded that the behavior of structural members under static or dynamic loads can be determined only by experiments that imitate practical conditions. There are 4 figures and 1 table.

Card 2/2



SHVETSOVA-SHILOVSKAYA, K.D.; MEL'NIKOV, N.N.; MAKSIMOVA, Z.I.;

ZAKHAROVA, T.S.; BOCHAROVA, L.P.

Organic insectifungicides. Part 66: Synthesis and insecticide properties of esters of certain carbamic acids. Zhur.ob.khim. 32 no.10:3230-3232 0 '62. (MIRA 15:11) acids. Zhur.ob.khim. 12 no.10:3230-3232 0 '62. (MIRA 15:11) insection insection in the control of the con

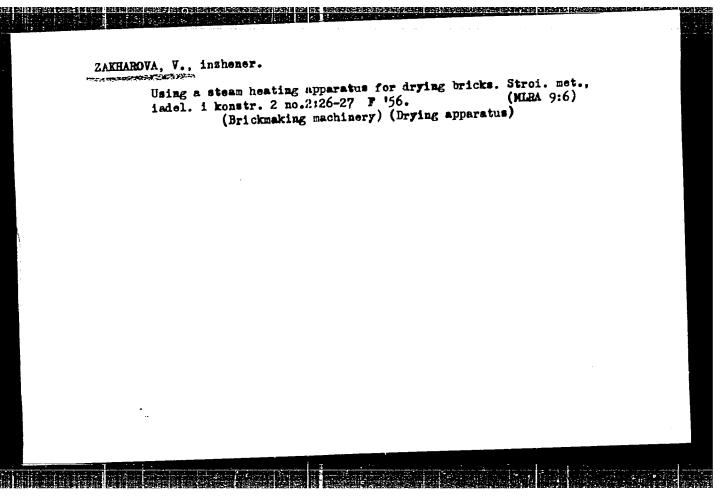
MEL'NIKOV, N.N.; SHVETSOVA-SHILOVSKAYA, K.D.; ZAKHAROVA, T.S.

Herbicides and plant growth controlling agents. Part 37:
Synthesis of some urea derivatives. Zhur.ob.khim. 32 no.2:
(MIRA 15:2)
381-383 F '62.

1. Nauchnyy institut po udobreniyam i insektofungitsidam imeni Ya.V. Samoylova.

(Urea)

(Growth promoting substances)



ZAKHAROVA, V.A., kand.med.nauk; GERSHKARON, S.I., ordinator

Problem of disorders of development of female genitalia. Akush.i gin. (MIRA 13:2) 35 no.5:80-81 S-0 159.

1. Iz 1-y akushersko-ginekologicheskoy kliniki Tashkentskogo gosudarstvennogo meditsinskogo instituta (zaveduyushchiy - zasluzhennyy deyatel' nauki UzSSR prof. A.A. Kogan), (GENITALIA, FEMALE, abnorm.)

ZAKHAROVA, V.A.

Dynamic studies on pregnandiol in urine as a method of control of the treatment of spontaneous abortion. Akush. gin. no.3:26-29 May-June 1953. (CLML 25:1)

1. Of the First Obstetric-Gynecological Clinic (Head -- Honored Worker in Science Prof. A. A. Kogan), Tashkent Medical Institute.

POPEREKA, M.Ya.; AVRAMENKO, O.I.; ZAKHAROVA, V.A.

Electrocrystallization stresses in bismuth deposits. Zhur. fiz. khim. 37 no.5:1165-1167 My '63. (MIRA 17:1)

1. Krasnoyarskiy politekhnicheskiy institut.

ZAKHAROVA, V.A., kand.med.nauk The construction was a finite of the construction of the construct Dynamic investigation of the pregnandiol content of urine as a control method in combined medical therapy in threatened abortion [with summary in English]. Akush. i gin. 34 no.1:53-57 Ja-F '58. (MIRA 11:4) 1. Iz 1-y akushersko-ginekologicheskoy kliniki (zav. kafedroy zasluzhennyy deyatel nauki UzbSSR prof. A.A.Kogan) Tashkentskogo meditsinskogo instituta. (ABORTION, urine in pregnandial, in threatened abortion, value in control of med. ther. (Rus)) (PREGNANDIOL, in urine in thereatened abortion, value in control of med, there (Rus))

文學和自然是所謂,但是如何的語彙是是在文字的言語。 [4] 表示的语言的是是是是一种,我们可以是一种,我们可以是一种,我们可以是一种,我们可以是一种,我们可以是一种,

POPEREKA, M.Ya.; VTY:RIN, N.I.; ZAKHAROVA, V.A.; AVRAMENKO, O.I.; SAFONOV, I.A.

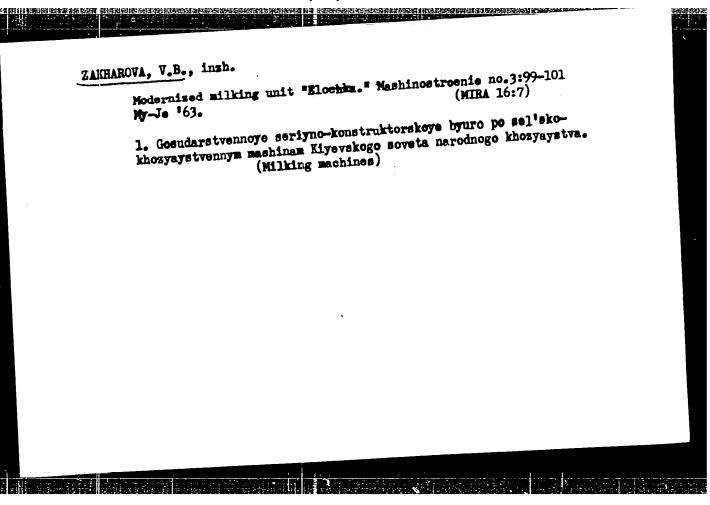
Internal stresses in galvanizing coatings. Zhur. fiz. khim. 39 (MIRA 18:4)
no.2:527-530 F '65.

GALKINA, N.V.; ABDULLAYEV, D.A.; ZAKHAROVA, V.A.

Biological characteristics and feed value of scaller duckweed.

Uzb. biol. zhur. 9 no.3:44-47 '65.

1. Institut botaniki AN UZSSR.



SHAKHOVA, Z.F.; GAVRIIOVA, S.A.; ZAKHAROVA, V.F.

Analysis of molybdenum heteropoly compounds of selenium (IV).

Vest. Mosk. un. Ser. 2: Khim. 20 no.6:79-81 N-D '65.

(MIRA 19:1)

1. Kafedra analitichenkoy khimii Moskovskogo universiteta.

Submitted Feb. 26, 1965.

ZAKHAROVA, V.K.

Effect of penicillin on the content of nucleic acids in organs in experimental streptococcal infections. Antibiotiki 9 no.7:646(MIRA 18:3)

1. Kafedra biokhimii Karagandinskogo meditsinskogo instituta.

SHAKHOVA, Z.F.; GAVRILOVA, S.A.; ZAHKAROVA, V.F.

Synthesis of molybdothoric heteropoly acid. Zhur.meorg.khim. 7 no.7:1752(MIRA 16:3)

(Molybdothoric acid)

RAMNEVA, A.I.; MUZYCHENKO, L.A.; VAN TSZYAN'-FYN [Wang Chien-fêng]; ZHEMZHUR, A.I.; ZAKHAROVA, V.I.

Oxidation of acenaphthene with electrochemical regeneration of the catalyst. Neftekhimia 2 no.5:756-759 S-0 '62. (MIRA 16:1) catalyst. Nestekhimia 2 no.5:756-759 s-0 '62. (MIRA 16:1) catalyst. Nestekhimia catalyst. Nestekhimia catalyst. (MIRA 16:1) catalyst. (MIRA 16:1) catalyst. (MIRA 16:1) catalyst. (MIRA 16:1) catalyst. (Acenaphthene) (Oxidation) (Catalysts)

KAMNEVA, A. I.; ZAKHAROVA, V. I.; MUZYCHENKO, L. A.; ROGOV, V. V.

Preparation of terephthalic acid by the oxidation of p-diacetyl-benzene. Neftekhimia 2 no.4:536-540 Jl-Ag *62. (MIRA 15:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Terephthalic acid) (Bensene)

5/204/62/002/004/010/019 E075/E436.

AUTHORS:

Kamneva, A.I., Zakharova, V.I., Muzychenko, L.A.,

排列用的形式的形式的形式的形式的形式的形式的形式。

Rogov, V.V.

TITLE:

Preparation of terephthalic acid by the oxidation of

p-diacetylbenzene

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 536-540

The authors investigated the oxidation with molecular O of p-diacetylbenzene in glacial acetic acid solution in the presence of manganese acetate (2% wt of p-diacetylbenzene taken). The best yield (65.5%) of terephthalic acid was obtained by conducting the oxidation under 50 atm pressure, 175°C and oxygen Quantitative analysis of the acetic acid solution containing the exidation products was carried out by thin film chromatography using Al203 as the adsorbent and benzene as eluent. It was thus shown that p-diacetylbenzene is almost completely oxidized under the conditions used into terephthalic acid, the latter being partially converted into resinous There are 2 figures and 1 table. condensation products.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. Card 1/1 D.I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D.I. Mendeleyev)

。 "中心不知识不会的证明,现代的证明,是不是证明的证明,但是是是不是是不是的,我们就是是不是的。" "他的 对于,我们就是一个一个一个一个一个一个一个一个一个

5/204/62/002/005/005/007 E075/E136

Kamneva, A.I., Muzychenko, L.A., Wang Chien-Fin,

Zhemzhur, A.I., and Zakharova, V.I. AUTHORS :

Oxidation of acenaphtnene with the electrochemical

regeneration of catalyst

PERIODICAL: Neftekhimiya, v.2, no.5, 1962, 756-759

The synthesis of TEXT:

was achieved by oxidizing with O a 10% acenaphtnene solution containing 5% KCOOCH3, 1% Mn(COOCH3)2. 42% N, N'-dimethyl-formamide and 42% glacial acetic acid at 60 °C for 3 hours. The oxidation proceeded satisfactorily only when the catalyst was regenerated by passing 1.5 A current through the solution. The product melting at 270 °C precipitated out and contained 73% of acidic compounds and some carbonyl compounds. It was postulated that the oxidation proceeds as follows:

. Card 1/2

TITLE

Oxidation of acenaphthene with ...

s/204/62/002/005/005/007 E075/E136

 CH_2-CH_2 $CH_2-C=0$ 0=C-C=0

There are 2 figures.

ASSOCIATION: MKhTI im. D.I. Mendeleyeva, Kafedra khimicheskoy

(MKhTI imeni D.I. Mendeleyev, Department of Chemical Fuel Technology)

SUBMITTED:

May 11, 1962

Card 2/2

CHARLES AND ENGINEERS OF THE CONTRACT OF THE C

ZAKHAROVA, V.K.

Stimulation of phosphorous metabolism in animals by tissue implants. Vop.med. khim. 2 no.4:262-268 J1-Ag *56. (MLRA 9:10)

1. Otdel biokhimii instituta eksperimental*noy meditsiny AMN SSSR. (PHOSPHORUS, metabolism, eff. of tisque prep. according to Filatov*s technic implants in animals (Rus))

(TISSUE THERAPY, eff. of Filatov*s tissue implants on phosphorus metab. in animals (Rus))

The distibution of toal and lipid phosphorus in organs of animals

ZAKHAROVA, V.K.

with experimental tuberculosis under treatment with streptomycin [with summary in English]. Vop.med.khim. 4 no.1:39-42 Ja-F'58 (MIRA 11:5) 1. Kafedra biokhimii Kishinevskogo meditsinskogo instituta. (TUBERCULOS IS, experimental phosphorus & phospholipid metab.. eff. of streptomycin admin. (Rus)) (PHOSPHORUS, metabolism distribution in exper. tuberc. eff. of streptomycin admin. (Rus)) (PHOSPHOLIPIDS, metabolism distribution in exper. tuberc, eff. of streptomycin admin. (Rus)) (STREPTOMYCIN, effects on phosphorus & phospholipid metab. in exper. tuberc. (Rus))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610015-9"

16_/g ACCESSION NR: AR4018332 8/0137/64/000/001/1060/1060 SOURCE: RZh. Metallurgiya, Abs. 11:374 AUTHOR: Konter, L. Ya.; Zakharova, V. L. TITLE: Studying the influence of "residual influence" of thermomechanical working on the mechanical properties of bearing steel CITED SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshirnik. prom-sti, no. 1(33), 1963, 16-27 TOPIC TAGS: bearing, bearing steel, roller bearing strength, testing roller TRANSIATION: Studies were conducted on ShKh15 steel. Deformation during thermomechanical working took place by means of open rolling, and rolling in a closed band of ring-shaped samples. It was found that after repeated heat treatment (with a short span of heating) of the samples subjected to preliminary thermomechanical working, residue influence of percussion hardening of austenite remains. The residual influence of thermomechanical working during repeated heat treatment occurs not

L 233(4-65 EWT(m)/EWP(w)/EWA(d)/N/EWP(t)/EWP(b) MIW/JD

ACCESSION NR: AR5000600

s/0137/64/000/008/1068/1068

SOURCE: Ref. th. Metallurgiya. Sv. t., Abs. 81433

AUTHOF: Konter, L. Ya.; Zaknerova, V. L.

TITLE: Thermomagnetic treatment of bearing steels

CITED SOURCE: Tr. Vses. n.-i. konstrukt.-teknol. in-ta podshipnik.

TOPIC TAGS: bearing, stoel, bearing steel, thormomagnetic treatment, smagnetic field, austenite/steel Shkhl5, steel Shkhl5SGSh, steel

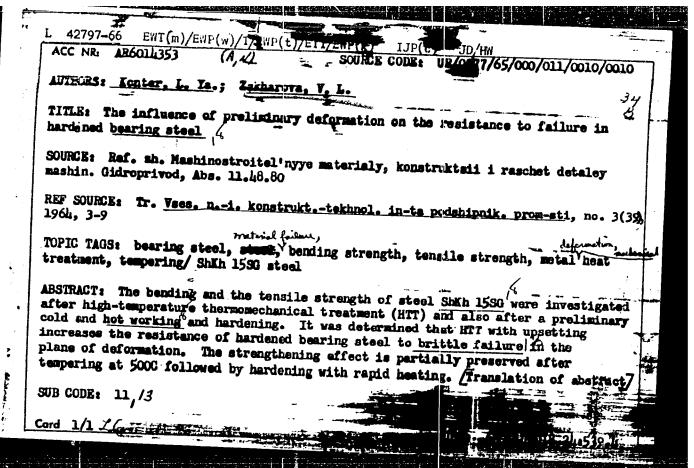
TRANSLATION: A study has been made of the effect of thermomagnetic treatment on content of residual austenite, mechanical properties, and contact resistance of bearing steels. Treatment was carried out in an electromagnetic gap with a constant field up to 9500 cersteds, Magnetic tempering was carried out in a tubular electric furnace, placed in an electromagnetic gap or inside a solenoid. The intensity cord 1/2

L 23364-65 ACCESSION NR: AR5000600 of residual austenite was determined on a ballistic apparatus. Sample of steels ShKhl), ShKh SSGSh, 9Khl8Sh, EI347Sh, and R9 were out from hot rolled annualed rids along the exts of rolling and wore polished after heat treatment. The heat treatment and testing method are described. It was established that tempering in a strong constant magnetic field increases bending resistance, and contact resistance of bearing steels. In tempering steels with a constant magnetic field, anisotropy appears in the strength properties: samples tempered in the direction of the magnetic lines of force have better mechanical properties than samples tempered in a direction across the field. The application of a magnetic field in tempering heat resistant steels accelerates the process of decomposition of the residual austenite. 5 figures, 3 tables, 10 literature titles. T. Luch Ininova SUB CODE: MM ENGL: 00 Card 2/2

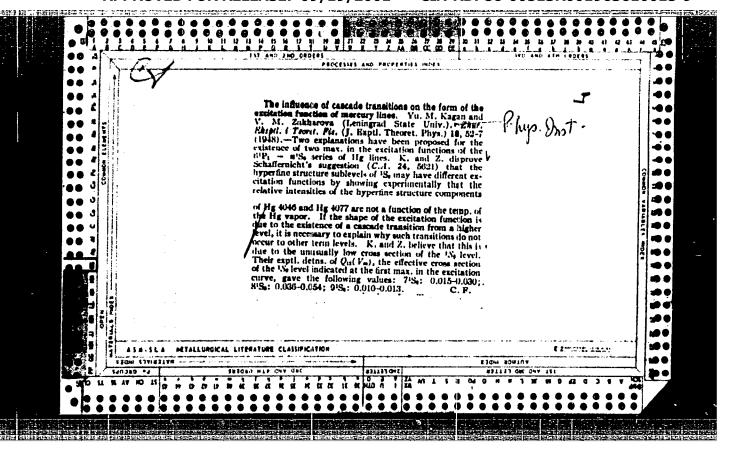
L 33522-65 ENT(m)/ENP(w)/ENA(d)/T/ENP(t)/ENP(b)/ENP(1) MJN/JD ACCESSION NR: AR5005702 8/0276/64/000/010/B057/B057 SOURCE: Ref. zh. Tekhnol. mashinostr. Sv. t., Abs. 10B362 AUTHOR: Konter, L. Ya.; Zakharova, V.L. TITLE: Thermomagnetic treatment of CITED SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik. prom-sti, no. 4(36), 1963, 3-10 TOPIC TAGS: bearing steel, electromagnetic hardening, constant magnetic field, alternating magnetic field, steel mechanical property, residual austenite, contact endurance, field direction effect/ShKh15 steel, ShKh15SGSh steel, 9Kh18Sh steel, EI347Sh steel, R9 steel TRANSLATION: This study concerned the effects of thermomagnetic treatment on the content of residual austenite, mechanical properties and contact endurance of bearing steels. Samples were treated in the gap of an electromagnet with a constant field of about 9500 cersteds or inside a solenoid with an alternating field of about 200 cersteds. Magnetic tempering was carried out in a tubular electric furnace placed in the gap of an electromagnet or inside a solenoid. The constant field had an intensity of 5500 cersteds Card 1/2

)22-65 SSION NR: AR50						
durin ballis cut fr The h lished bendin	temporing operatic unit. Samples om hot-rolled and eat treating proceed that hardening in	tions. The am of ShKh15, Sh annealed rods dure and expen an intense con	along the rol imental meth stant magnet	I axis and gro odology are do ic field improv	in and R9 stee and after heat scribed. It w es the france	l were treating, as estab-	
harder than s	ted in the direction imples hardened in Superposition of	n steel was had n of magnetic n a direction to	rdened in a co force lines ex ransverse to	nstant magnet hibit better me the direction of	c field. Samp chanical prop f the	n obaracy b oles erties	
harded than so field. the br	ted in the direction imples hardened to	n steel was had n of magnetic n a direction to	deded in a colorce lines ex ransverse to d when tempe 3ibl. with 10	nstant magnet hibit better me the direction of	c field. Samp chanical prop f the	n obaracy b oles erties	
harded than so field. the br	cs was noted when led in the direction imples hardened i Superposition of a akdown of residual thininova	n steel was han n of magnetic n a direction t n magnetic fiel nl austenite.	deded in a colorce lines ex ransverse to d when tempe 3ibl. with 10	nstant magnet hibit better me the direction of	c field. Samp chanical prop f the	n obaracy b oles erties	

31985-66 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) ACC NR: AR6009967 IJP(c) JD/HH/DJ SOURCE CODE: UR/0137/65/000/012/1057/1057 AUTHOR: Konter, L. Ya.; Zakharova, V. L. TITLE: Effect of preliminary work hardening on the rupture strength of hardened bearing steel SOURCE: Ref. sh. Metallurgiya, Abs. 121430 REF SOURCE: Tr. Vses. n.-i. konstrukt. tekhnol. in-ta podshipnik. prom-sti, v. TOPIC TAGS: bearing steel, rupture strength, metal machining, work hardening ABSTRACT: Preliminary work hardening causes a change in the initial anisotropy of rupture strength of hardened bearing steel High-temperature thermomechanical treatment by upsetting increases the brittle rupture strength of hardened bearing steel in the deformation plane. Thermomechanical hardening is partially retained after tempering at 500C and hardening with rapid heating. High-temperature thermomechanical hardening of pellets increases their longevity insignificantly, and is not advisable with existing methods of pressure working and machining for hardened SUB CODE: 11/ SUBM DATE: none Card 1/1 1C UDC: 669.14.018.27



(m)/T/EW(t)/ETI/EW ACC NRI (A, N) AR6014354 SOURCE CODE: UR/0277/65/000/011/0010/0010 AUTHORS: Konter, L. Ya.; Zakharova, V. L.; Bernshteyn, M. L.; Cher ukha, L. G. TITLE: An investigation of high-temperature thermomechanical treatment of bearing **Lantz** SCURCE: Ref. mi. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod. Abs. 11.48.81 REF SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik. 4(40), 1964, 12-24 mechanical heat trustment, mutal property, & TOPIC TAGS: bearing steel, metallurgic research, metallurgic more structure / ShKhl5 steel ABSTRACT: The influence of the high-tempyrature thermomechanical treatment (HTT) on the structure and properties of ShKh151 steel has been investigated. The HTT process involves heating in the interval of 910--1000C, deformation by rolling out to 10-50%, water or oil quenching and tempering. A control group of specimens was subjected to standard treatment. Applied at optimal conditions, HTT improves several properties of ShKhl5 steel. An experimental technique of applying HTT to bearing rings has been developed, and a number of ball bearings and roller bearings has been produced for experimental purposes. 15 illustrations. Bibliography of 6 titles. Translation of abstract Card 1/1/ SUB CODE: 11 /3 UDC: 669.14.018.24



Chemical Abst.

Vol. 48 No. 4

Feb. 25, 1954

Electronic Phenomona and Spectra

The summing of the excitation of Hg atoms and lons in the post column of a symptom. The extinction of his return of the symptom. The extinction of his return of some of the symptom. The extinction of his return of some of the symptom. The extinction of his return of some fall freely from their place of origin to the walls of the tube.

J. Turkevich

ZAKHAROVA, V.M. USSR/ Physics - Electron distribution Card 1/1 Pub. 43 - 16/97 Authors Zakharovz, V. M., and Kagan, Yu. M. Title s Spectroscopic investigation of electron distribution according to the speeds in a positive gas discharge column Periodical : Izv. AN SSSR. Ser. fiz. 18/2, page 254, Mar-Apr 1954 Abstract The electron distribution was investigated in a positive discharge column in the presence of sodium - helium vapors at a discharge current intensity of 10 - 90 ma. It is assumed that the spectroscopic method will make it possible to obtain more accurate data on the speed distribution of fast electrons provided the discharge conditions are such that the secondary processes can be disregarded. The difference between the speed of normal electron distribution and the Maxwell distribution is briefly explained. One USSR reference (1941). Institution: The A. A. Zhdanov State University, Physics Institute, Leningrad Submitted

ZAKILAROVA, V. M.

ZAKHAROVA, V. M. --"Luminescence of Ions at the Positive Pole of a Gaseous Discharge." Leningrad State U imeni A. A. Zhdanov, Leningrad, 1955 (Dissertation For the Degree of Candidate in Physicomathematical Sciences)

SO: Knizhnaya letopis' No. 37, 10 September 1955

ZAKHAROVA, V.M. USER/ Physics Card 1/1 Pub. 127 - 7/13 Authors Zakhorevo, V. M., and Kagan, Yu. M. Title Line intensity distribution in secondary series in a positive sedium discharge column Periodical Vest. Len. un. Ser. mat. fiz. khim. 10/2, 125-134, Feb 1955 Abstract The radiation of sodium diffusion series was investigated with respect to the change in discharge parameters to determine the deviations from the Maxwell electron distribution. The dipendence of the electron temperature and electron concentration upon pressure and discharge current intensity is explained. The results obtained by measuring the line intensity distribution within secondary series at various pressures and current intensities are tabulated. The harmful effect of the electrophoresis phonomenon, which exists during the discharge in a vapor-inert gas mixture, is discussed. Twenty reference: 12 USSR. 3 Corman, 4 English and 1 Dutch (1930-1954). Graphs. Institution Submitted June 21, 1954

USSR/Physical Chemistry - Atom.

B-3

Abs Jour

: Referat Zhur - Khimiya, No 1, 1958, 46

Author

: V.M. Zakharova, Yu.M. Kagan.

Inst Title

: Study of Discharge Parameters and Character of Excitation

of Ion Lines at Great Current Densities.

Orig Pub

: Optika i Spektroskopiya, 1956, 1, No 5, 627-635

Abstract

: Sounding and optical measurements were carried out in discharges in Hg vapor (at pressures of 1.2.10⁻³ to 1.2.10⁻¹ mm of mercury column) and in Ar, Kr and Xe (in the pressure range from 0.2 to 2.0 mm of mercury column) at current densities from 2 to 20 a per sq.cm. The ion part and the beginning of the electron part of the volt-ampere characteristic was used fro the measurement of the ion concentration. The electron concentration n_e, the temperature of the electron gas T_e in inert gases does not change monotonously depending on the current density at gas

Card 1/2

ZAKHAROVA, V.M.

B-3

USSR/Physical Chemistry - Atom.

Abs Jour

: Referat Zhur - Khimiya, No 6, 25 March 1957, 18109

Author

: Contours of Lines of Ions in a Plasma of a Positive

Title

Column of a Gas Dischanrge.

Orig Pub

: Optika i Spectroskopiya, 1956, 1, No 5, 636-641

Abstract

: Contours of lines of ions Ar in a plasma of a positive column of gas discharge are investigated. Discharge tube is 140 mm. long and of a diameter of 4 mm. Gas pressure at the dicharge was changing from 0.5 to 2.0 mm. of mercury column; intensity of the discharge current was from 0.2 to 2.2a. Contours of lines were photographed across and along the tube by means of an etalon of Fabry-Perot. The temperature of the ambient medium was maintained with an accuracy of 0.10. The contours of lines were built by means of a microphotometer MF-2 on the scale of wave lengths. The temperature of ions was determi-

Card 1/2

ZAKHARYAN, V.M., inzh.; YABHAWA, H.D., inzh.

Simplified mathodology for the conversion of universal electric motors. Elektrotekhnika 35 no.5249-52 by 64 (M.RA 17:8)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610015-9"

9(4) AUTHORS:

Zakharova, V. M., Kagan, Yu. M.

SOV/54-59-3-8/21

TITLE:

On Some Characteristics of the Positive Discharge Column at Low Pressures and High Discharge Current Densities

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 3, pp 44-48 (USSR)

ABSTRACT:

In the introduction the problem mentioned in the title is briefly described and S. E. Frish, Yu. M. Kagan (Refs 1-3), and A. M. Shukhtin (Ref 5) are mentioned in this connection. In the present paper the electric discharge characteristics in a Hg tube on the axis and the walls of the tube at low pressure and high discharge current densities are measured; moreover, an interferometric measurement was made (under the same conditions) of the directed ion velocity as dependent on vapor pressure in the tube. The investigations were made at pressures from

 6.10^{-3} to $1.6.10^{-1}$ torr, amperage was 400-1,500 ma which corresponds to a current density of $3.3-11.6~a/cm^2$. The temperature of the electron gas T_e and the electron densities n_e

Card 1/3

On Some Characteristics of the Positive Discharge SOV/54-59-3-8/21 Column at Low Pressures and High Discharge Current Densities

on the axis and the walls of the tube, the longitudinal field E, and the number of ionizations per electron per unit of time z were determined. Figures 1-4 show the curves of the dependence Te and ne on the amperage of the discharge current. The course of these curves on the axis and the walls of the tube is different. The minimum occurring in these curves is considerably weaker on the walls. Concentration $n_{\ensuremath{\mathbf{e}}}$ increases monotonously with increasing amperage. With rising pressure $\mathbf{T}_{\mathbf{e}}$ decreases on the walls, and the concentration increases at all amperages. A complicated relation is observed on the axis. The temperature has a minimum at a certain pressure for all amperages, only at very small amperages it decreases monotonously with rising pressure. At certain pressures $n_{\underline{e}}$ has a maximum on the axis. The mentioned processes are explained by a dilution of the gas during the discharge occurring in the central part of the positive column. This is in agreement with the observations made by Shukhtir. Table 1 shows the values computed for z and

Card 2/3

On Some Characteristics of the Positive Discharge SOV/54-59-3-8/21 Column at Low Pressures and High Discharge Current Densities

the value measured for E. From the measurement of the Doppler shift toward and opposite to the direction of the field the directed velocity of the ions was computed. Table 2 shows the values of $\delta\lambda$ and $-v_z$. Curve v_z versus steam pressure has a

maximum. In conclusion, the authors thank Professor F. E. Frish, Corresponding Member of the AS USSR, for the interest he showed in the work. There are 4 figures, 2 tables, and 9 Soviet references.

SUBMITTED:

April 15, 1959

Card 3/3

SOV/48-23-8-14/25

Zakharova, V. M., Kagan, Yu. M., Perel', V. I. 24(3) AUTHORS:

The Positive Column of Discharge in the Diffusion Procedure

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, TITLE:

Vol 23, Nr 8, pp 999-1003 (USSR) PERIODICAL:

In the introduction of the present paper some older articles of non-Russian scientists on the positive discharge column at low pressures are mentioned in addition to articles published ABSTRACT: by B. N. Klyarfel'd. An equation for the balance of electrons and ions (1) introduced by L. Frost is given, This article intends to obtain some relations by Frost's theory for a comparison with experiments, and to apply the comparison to the positive column of Hg, Ar, and K. In the first part, the drift velocity (2) is given by Frost's approximation, besides the approximation for potential distribution and concentration (4).

By means of the latter the balance equation (7), a formula for the number of ions per unit of length of the column, and a formula for the ion current density (9) are developed. In the second part, experiments of Langmuir and Tonks (Ref 2) are

referred to, and the equations (11) for the plasma boundaries Card 1/2

The Positive Column of Discharge in the Diffusion Procedure

are given. Formulas (12) deliver the drift velocity and ionic concentration near the plasma boundary, equation (13) gives the average velocity of ions. An approximate formula (16) is given for calculating the thickness of the layer. Equation (17) supplies the potential difference between axis and wall of the tube. In the third part, the calculated results are compared to experimental results. The temperature of the electron gas was determined by means of a search electrode, the electron density was found by formula (18). The charges measured in Hg-, Ar-, and K-vapor are summarized in the diagrams of figures 1 to 3, and it was found that there is good agreement with theoretical values as long as diffusion procedure may be assumed. There are 3 figures and 13 references 5 of which are

Card 2/2

24(4),24(7)

SOV/53-69-1-10/11 AUTHORS:

Bogdanova, I. P., Bochkova, O. P., Zaydel', A. N.,

Zakharova, V. M., Kagan, Yu. M., Kaliteyavskiy, N. I., Penkin, N. P., Chayka, M. P., Shukhtin, A. M., Lipis, L. V.

TITLE:

Sergey Eduardovich Frish (Sergey Eduardovich Frish).

On the Occasion of His Sixtieth Birthday (k shestidesyatiletiyu so dnya rozhdeniya)

PERIODICAL:

Uspekhi fizicheskikh nauk, 1959, Vol 69, Nr 1, pp 165-167 (USSR)

ABSTRACT:

On June 19th, 1959, the well-known Soviet physicist S. E. Frish, who made a name for himself especially in the field of

spectroscopic optics, attained the age of sixty. He began his scientific work as a student at the fiziko-matematicheskoye otdeleniye Leningradskogo universiteta (Physico-mathematical Department of Leningrad University) under D. S. Rozhdestvenskiy. After completing his university studies he continued his work at the Gosudarstvennyy Opticheskiy institut (Optical State Institute). Since 1934 he held a chair for optics and supervised

work at the Physics Department, first as dean and later as director of the Nauchno-issledovatel'skiy fizicheskiy institut

Card 1/3

LGU (Scientific Research Institute for Physics at Leningrad

BALLINGGARD CHARGE CHAR

sov/53-69-1-10/11

Sergey Eduardovich Frish. On the Occasion of His Sixtieth Birthday

State University). In 1946 he was appointed Corresponding Member, AS USSR, and took active part in the work of the Academy. He is deputy chairman of the spectroscopy Committee, chief editor of the periodical "Optika i spektroskopiya" and member of the International Committee for spectroscopy at the UNESCO. He first concentrated his scientific interest on atomicalenergy, the systematics of atomic spectra, the Zeeman effection the sodium and potassium spectrum, as well as upon experimental spectroanalytical investigations. In 1930 he started a cycle of works, which was devoted to optical methods of investigating the properties of the atomic nucleus. (An investigation of the interaction between nucleus and electron shell led to the discovery of the hyperfine structure of spectra). He investigated the hyperfine structure of Na and set up a rule concerning the interrelation between nucleus-spinand parity. He further investigated the fine structure of isotope mixtures, the excitation mechanism of the higher atomic levels, and questions of the interaction of elementary

Card 2/3

Sergey Eduardovich Frish. On the Occasion of His Sixtieth Birthday

Machite 1250 Citales enterent femiliera de la company de la recompany de la re

SOV/53-69-1-10/11

particles. Finally, mention is made of his pedagogical activities, especially his courses in physics (which are partly held together with A. V. Timoreva). There are 1 figure and 42 Soviet references.

Card 3/3

5/057/60/030/04/07/009 B004/B002

AUTHORS: Zakharova, V. M., Kagan, Yu. N., Mustafin, K. S., Perel',

TITLE:

Probe Measuring Under Middle Pressures

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 4,

pp. 442-449

TEXT: It was the purpose of the present paper to investigate the applicability of the Langmuir probe for measuring the characteristic plasma values at pressures higher than 1 torr. The authors derived equations (4), (5) for the ion currents directed upon spherical and cylindrical probes with strong negative charges, and their current densities (equations 8-10). Furthermore, equation (11) is given for the plasma potential V. The following method of measuring the characteristic plasma values is suggested: a) the electron temperature Te is determined by means of the two-probe method given in Ref. 11; b) the electron concentrations are determined by means of equations (4), (5) and by applying the electron section of the characteristics. The effective cross

Card 1/3

Probe Measuring Under Middle Pressures

S/057/60/030/04/07/009 B004/B002

sections of the ion overcharge, gas temperature, and concentration of the normal atoms must be known for the determination of the ion: concentration n_{∞} . The theoretical calculations are experimentally proven in Hg vapor at 10⁻¹ to 1 torr. Table 1 shows that the values no of spherical and cylindrical probes are in good agreement with calculations. Furthermore, plasma measurements were carried out in neon and argon at 1 to 20 torr, 50,200, and 400 ma, and in Hg at 10 torr, 0.5, 1.0, 1.5, and 2.0 a. Table 2 gives the field voltages of Ne and Ar, Table 3 the values of To, Table 4 the density of the ion current, and Table 5 the values of n_{00} . The T_{e} values were taken according to Ref. 14 and measurements by O. P. Bochkova. The dependence of the electron concentration distribution on pressure in the case of Ne and Ar, is given in Figs. 1 and 2. These Figs. show that a pressure increase is accompanied by a compression along the axis, and differs for Ne and Ar. The column contraction observed, and the difference between calculated and measured wall current related thereto, indicate that the Schottky theory no longer holds true for the pressures applied. The authors finally investigate the

Card 2/3

|| 表数相同组建度表表系列原理地形形成后形成的

VB

Probe Measuring Under Middle Pressures

S/057/60/030/04/07/009 B004/B002

possible effect of electron- and photon emission on the result of their method, and prove this effect to be very low. They mention a paper by N. P. Penkin, and thank Professor S. E. Frish for the interest he took in this paper. There are 2 figures, 5 tables, and 16 references: 10 Soviet, 3 American, 1 British, and 1 Japanese.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A.

Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: July 16, 1959

/B

Card 3/3

ZAKHAROVA, V.M.; KAGAN, Yu.M.

Spectroscopic determination of ion mobility in a mixture of inert gases. Opt. 1 spektr. 10 no.4:547-549 Ap '61.

(Ions—Migration and velocity)

(MIRA 14:3)

CIA-RDP86-00513R001963610015-9

\$/051/61/011/006/011/012 E039/E385

24.7120 AUTHORS:

مع راسب په

Zakharova, V.M., Kagan, Yu.M. and Perel', V.I.

TITLE:

Spectroscopic observation of the rotation of a positive column discharge in a magnetic field

Optika i spektroskopiya, v.11, no.6, 1961, 777-779

It has been shown that, in powerful arc discharges at low pressures in a magnetic field, the ions rotate about the PERIODICAL: axis of the arc. This azimuthal motion is explained as the effect of the action of the magnetic field on a radial current of ions. In this work an argon discharge was studied in a tube 1.5 cm in diameter and 180 cm long. The pressure range covered was 0.5 to 2.5 mm Hg. The discharge current was 1.6 A and the magnetic fields used were 250, 600 and 1 000 0e. Two solenoids 60 cm long were placed on the centre of the tube with a space of 1.5 cm for the spectroscopic observations. The speed of rotation of the atoms was measured by observing the displacement of the 4 300 and 4.044 Å lines using a specially designed spectrograph and a Fabry-Perot etalon. It was shown that the direction of the rotation of the atoms was the same as for the positive ions and Card 1/2

32528 \$/051/61/011/006/011/012 E039/E385

Spectroscopic observation

that the speed/ f rotation depended on the strength of the magnetic field and the gas pressure. The maximum value observed was 1.5 x 10 4 cm/sec at a pressure of 1 mm Hg and a field of 600 0e. At fields of 250 and 1 000 0e the speeds of rotation were 0.3 and 0.4 x 10 4 cm/sec, respectively.

There are I figure and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The four latest English-language references mentioned are: Ref. 3: J.M. Wilcox - Rev. Mod. Phys., 31, 1045, 1959; Ref. 7: A. Simon. Proc. of the II United Nation Conference of the Peaceful Uses of Atomic Energy, 32, 343, 1958; Ref. 8: B. Kadomzev, A. Nedospacov - J. nucl. energy, C 1, 230, 1960; Ref. 9: T. Hoh, B. Lehnert. Phys. of fluids, 5, no. 4, 1960.

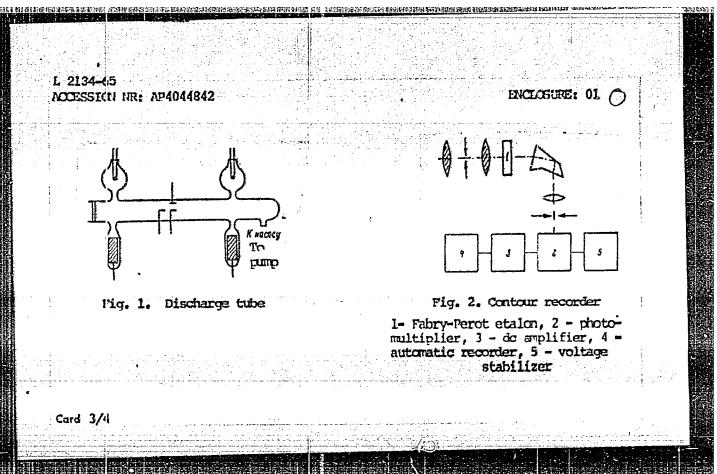
SUBMITTED: June 21, 1961

Card 2/2

X

AUTHORS: Golubovskiy, Yu. B.; Zakharova, V. M.; Kagan, Yu. M. TITLE: Investigation of ion and atom line contours in the positive column of a discharge in argon SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 333-336 TOPIC TAGS: argon plasma, spectrum line, discharge column, ion temperature, plasma ion motion, plasma atom ABSTRACT: Unlike the earlier investigations (Kagan and Zakharova, Zheff v. 22, 400, 1952), which were made at pressures p > 0.5 mm Hg and at large current densities (as high as 55 A/cm²), the present investigation was made at low pressures (10-25 x 10-1 mm Hg) and at current densities 0.3 A/cm². The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in Card 1/4	L 2134-65 ENT(1)/ENG(k)/ENT(n) EEC(t)/1/EEC(b)-2/ENP(q)/ENP(b)/ENA(n) IJP(c)/ESD/ASD(a)-5/ESD(gs)/ESD(t) ACCESSION NR: AP4044842	m)/EPA(sp)-2/EPF(c)/EPF(n)-2/EPR/EPA(w)-2/)-2 Pz-6/Pc-4/Pab-24/Pr-4/Ps-4/Pi-4/Pu-4 JD/AT S/0051/64/017/003/0333/0336
SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 333-336 TOPIC TAGS: argon plasma, spectrum line, discharge column, ion temperature, plasma ion motion, plasma atom ABSTRACT: Unlike the earlier investigations (Kagan and Zakharova, Zhetf v. 22, 400, 1952), which were made at pressures p > 0.5 mm Hg and at large current densities (as high as 55 A/cm ²), the present investigation was made at low pressures (10 ⁻² 5 x 10 ⁻¹ mm Hg) and at current densities 0.3 A/cm ² . The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in	AUTHORS: Golubovskiy, Yu. B.;	Zakharova, V. M.; Kagan, Yu. M.
TOPIC TAGS: argon plasma, spectrum line, discharge column, ion temperature, plasma ion motion, plasma atom ABSTRACT: Unlike the earlier investigations (Kagan and Zakharova, Zheth v. 22, 400, 1952), which were made at pressures p > 0.5 mm Hg and at large current densities (as high as 55 A/cm²), the present investigation was made at low pressures (10-2-5 x 10-1 mm Hg) and at current densities 0.3 A/cm². The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in	TITLE: Investigation of ion an column of a discharge in argon	d atom line contours in the positive
TOPIC TAGS: argon plasma, spectrum line, discharge column, ion temperature, plasma ion motion, plasma atom ABSTRACT: Unlike the earlier investigations (Kagan and Zakharova, Zheth v. 22, 400, 1952), which were made at pressures p > 0.5 mm Hg and at large current densities (as high as 55 A/cm²), the present investigation was made at low pressures (10-2-5 x 10-1 mm Hg) and at current densities 0.3 A/cm². The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in	SOURCE: Optika i spektroskopiy	a, v. 17, no. 3, 1964, 333-336
and at large current densities (as high as 55 A/cm ²), the present investigation was made at low pressures (10 ⁻² 5 x 10 ⁻¹ mm Hg) and at current densities 0.3 A/cm ² . The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in	TOPIC TAGS: argon plasma, spec	trum line, discharge column, ion
current densities 0.3 A/cm ² . The discharge tube and the set-up for recording the contour are described. The tests yielded the atom and ion temperatures and the directional component of the ion velocity in	and at large current densities	were made at pressures p > 0.5 mm Hg (as high as 55 A/cm ²), the present
	recording the contour are descri	he discharge tube and the set-up for
	Card 1/4	

L 213		
	2551)N NR: AP4044842	0
	discharge. The experimental data are compared with	
vious	y calculated values of the same quantities and conf asly proposed mechanism for the motion of ions in a ling to this mechanism, the lons are accelerated at	plasma. Ac-
in the	the longitudinal field for a time limited by their distribution increasing pressure, the drift to the wall the directional velocity and energy of the ions inc	rift to the
gove	increase in the pressure causes the ion acceleration increase in the pressure causes the ion acceleration in the directional velocity. In . Orig. art. has: 3 figures, 6 formulas, and 3 takes.	on to be ocity drops
gover agair	increase in the pressure causes the ion acceleration in the collisions, so that the directional vel	on to be ocity drops
gover again	increase in the pressure causes the ion acceleration of the collisions, so that the directional velon. Orig. art. has: 3 figures, 6 formulas, and 3 tax	on to be ocity drops
ASSOC	increase in the pressure causes the ion acceleration of the collisions, so that the directional velon. Orig. art. has: 3 figures, 6 formulas, and 3 table CIATION: None	on to be ocity drops bles.



	Tab1e	1.			Ra Tab	le 2			T.	ble			²	
p. ura.Hg	10-11	10			P. Mat. He	T	r, ekp.	r, theor		10-4	P. IT	m.Hg		
10-5 5 · 10-2 10-1 5 · 10-1	0.6 0.9 2.7 3.6	3.4 2.8 2.6 1.5	0.5 1.5 1.3 0.9	1.63 1.85 1.05 1.85	5.10-1 5.10-1	350 350 350	570 750 700	400 540 400	exp the a	4.0 13.0	10.0 21.0	10.0 18.0		
Plasm	ı para	metei			Atom ar tempera				Ica dir	ectí	onal.	velo	cities	

在行列的工作的设计工程的证明,在过程处理的企业的经验和企业的经验的现在分词是使用进一步发现的企业的企业的现在分词,我们的现在分词,在现代的企业的工程的企业的一种的企业的一种的企业。 4385-66 EWT(1)/ETC/EPE(n)-2/EWG(m) UR/0051/65/019/001/0140/0141 ACC NR: AP5017907 537.5234.527 AUTHOR: Zakharova, V. M.; Kagan, Yu. M. Concerning the rotation of the positive column of a discharge in a magnetic field SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 140-141 TOPIC TAGS: neon, argon, helium, krypton, gas discharge plasma, turbulent plasma, pressure effect, plasma magnetic field ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 11, 77, 1961) in which the rotation of the positive column of argon discharge in a longitudinal magnetic field was observed by a spectroscopic method. In the present work, the speed of rotation of the plasma in helium, neon, argon, and krypton was investigated in the pressure range between 0.5 and 2.5 mm Hg, for a discharge current 600 ma in magnetic fields from 50 to 1000 Oe. The method of observation was improved by substituting photoelectric recording for photography. A discharge tube 2.2 cm in diameter was used The pressure in the chamber could be varied linearly. The image of the edge of the positive column was projected on the slit of a 2PS spectrograph crossed with a Fabry-Perot etalon 30 mm thick. The image of the slit and of the interference pattern was projected on the spectrograph camera lens, and part of the central-ring image was cut out by mutually perpendicular slits and projected on the photomultiplier (FEU 51). Card 1/2

			and with increas	ing
he study showed that the urrent in all gases and	James and thirth inches	cino pressure, rea		172,000
arious lines in differen	it gases gave similar	results. All plots	elv 150, 300, 60	0.
		n. respectively.	Tr To grewit meet	- W10-
nd 800 Oe for hellum, he otation cannot be attributed ions. "The authors t				
ork." Orig. art. has:	2 figures. 44,55			
SSOCIATION: None				
	ENCL: 0	10 S	UB CODE: ME	
UBMITTED: 24Dec64	OTHER:			
IR REF SOV: 002	UITER:			-
	•			
	•	Medienija ir Andreas estatus. Parastas ir Andreas estatus ir Andreas estatus estatus estatus estatus estatus estatus estatus estatus estatu	***	
lhs				

ZAKHAROVA, V. N.

"The Telephone Set TAU-1 MB"

Vestnik Svyazi, No 4, 1952, pp 7-8

Translation M-1340, 10 Dec 56

RAZUVAYEV, G.A.; GRAYEVSKIY, A.T.; MINSKER, K.S.; ZAKHAROVA, V.N.

Syntehsis and some properties of diethoxyaluminum peroxycumal. Izv.AN SSSR.Otd.khim.nauk no.9:1555-1559 S *62. (MIRA 15:10)

Nauchno-issledovatel'skiy institut khimii, g. Gor'kiy.
 (Aluminum organic compounds)

s/062/62/000/009/003/009 B179/B101

AUTHORS:

Razuvayev, G. A., Grayevskiy, A. I., Minsker, K. S., and Zakharova, V. N.

TITLE:

Synthesis and some properties of diethoxy aluminum peroxy

cumene ·

Otdeleniye khimicheskikh PERIODICAL: Akademiya nauk SSSR. Izvestiya.

nauk, no. 9, 1962, 1555 - 1559

TEXT: It is sought to synthesize stable aluminum organic peroxide compounds free from impurities. Three syntheses were studied: (1) the reaction of diethoxy ethyl aluminum with cumene hydrogen peroxide, (2) that of triethoxy aluminum with cumene hydrogen peroxide, and (3) that of diethoxy aluminum chloride with the Na-salt of cumene hydrogen peroxide. Reaction (1) takes place only at temperatures higher than 15 - 20°C and in practice is not completed. Reaction (2), occurring at a maximum temperature of 28 - 30°C likewise does not complete its course and the reaction mixture contains no compound with an R-Al bond. Best results were obtained for the reaction

Card 1/3

S/062/62/000/009/003/009 B179/B101

Synthesis and some properties...

Synthesis and some property
$$C1-A1(OC_2H_5)_2$$
 + Na-O-O-C₉H₁₁ \rightarrow $C1-A1(OC_2H_5)_2$ \rightarrow NaC1 + $A1(OC_2H_5)_2$ O Na- O Na- O NaC1 precipitated as

This took place at 5° C in xylene solution. NaCl precipitated as fine crystals, the surplus aluminum alcoholates were evaporated and the peroxide was extracted with ether. Sometimes an amorphous complex compound having the composition $AlCl(OC_2H_5)_2 \cdot NaOOC_9H_{11}$ was precipitated with the NaCl. The peroxide $C(C_2H_5O_2)AlOOC(CH_3)_2 \cdot C_6H_5$ is a solid, white, amorphous substance which melts and decomposes at 113°C; it is easily soluble in xylene, hencene and chloroform. Its solution in xylene decomposes appreciably fast; even at room temperature. At 90°C the decomposition is energetic. Its products are dimethyl-phenyl carbinol, acetophenone, α -methyl styrene, ethyl alcohol and aluminum hydroxide. The polymerization of methyl methacrylate, styrene, acrylonitrile, vinylidene chloride and vinyl chloride using $(C_2H_5O)_2AlOOC(CH_3)_2 \cdot C_6H_5$ as radical catalyst, gave a good yield of polymers. In the case of vinyl chloride, the yield of polymer Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610015-9"

S/062/62/000/009/003/009 B179/B101

Synthesis and some properties...

increased with increasing content of peroxide in the reaction medium. The polyvinyl chloride (decomposition temperature up to 150°C, thermostability 6 - 7 min) was amorphous and insoluble in either cyclohexanone or dichloro ethane, owing to strongly branched or net-like structure. There are 1 figure and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii, Gor'kiy (Scientific

Research Institute of Chemistry, Gor'kiy)

SUBMITTED: March 1, 1962

Card 3/3

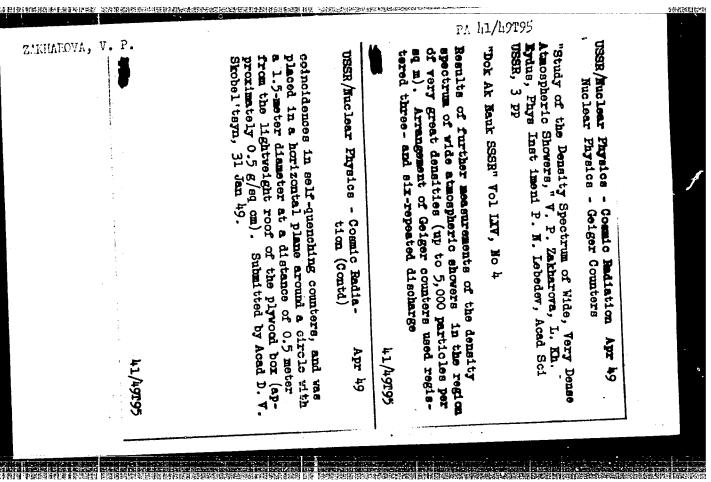
ZIKEYEV, 1. . (Gor'kiy); ZAKHAROVA, V.P. (Gor'kiy)

Improve the planning of the operational work of the railroads. Zhel.
dor.transp. 46 no.9:13-16 S 164. (MIRA 17:10)

l. Nachalinik Gorikovskoy dorogi (for Zikeyev). 2. Nachalinik planovo-ekonomicheskogo otdela Gorikovskoy dorogi (for Zakharova).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610015-9"

ACCESSION FRO APSOC	od 593	. 4 mac/s 17 .30 5/	nno g	
AUTHOR: ?akharyuta,	V. P.; Simonenko, I.	. B.; Tudovich, V. i.	ed	<u> </u>
riman Cloulation	of capacitances of al	he point discharge metho		
মুস্তালয় মণ্ডি । ইয়া সংগঠানী শুসান একজন লি । । শুসান কল্পাল । । । । । বুজিকাল । বুজিকাল ।	The second secon	ulating the sapeoitance ulating the sapeoitance in the partion of the parties o	g 1819/milandid (0) 4 latilita (1) ty 1859 (mg new 1881) 34 18	



G. T. Zatspein, I. L. Rosenthal, V. P. Zakharova, N. G. Khrebet, and G. B. Khristianson

The Observations of Atmospheric Showers of Cosmic Rays Having ϵ Width Over 1000 Metors.

Academy of Sci, USSR, New Series, Moscow Vol. 74, No. 1, September 1950, pp. 29-33

*#1#

From: Monthly List of Russian Accessions October 1950, Vol. 3, No. 7, p. 38

2000年 - 1900年	reserved to a province in the control of the contro
Zakharova, V.P.	
	raji kuluar nga mananan kulasan kalan manananan at yan nga kula di at kula kula k
	The state of the s
	10 cm
	10g, ent.
	/ Measuraments of the
	Measurements of the average number of neutrons emitted in the fission of several uranium and plutonium isotopes. I.
20.0	Measurement of the authorition isotopes. I
	upon fission of uranium-233, uranium-235, plutonium-239, and plutonium-241. V. I. Kalashaji 1985.
0.2	and plutonium-241. V. I. Kalashnikova, V. P. Zakharova, V. I. Lebedey, L. A. Mikarlyan, and W. P. Zakharova,
<u> </u>	And View II Committee D. Oplyac. That
	Session Die, Phys. Alalh. Ses. 1955, 123-6(Pub. 1950) Engl. translation). II. Humber of penting physics (Pub. 1950) Engl.
	Transfer from Tr. Tr. Tr. L. C.
	of the Sectorable
	Zakharova 1 tr re
94	Peyrone This to the control of the c
	number of neutrons which are refeased at the fission of o
	kova. V P Zatimana tr vitadiadini. V.1. Kalashni.
	Ibid. 131-2 Co. C. Spirak.
	B.M.R. OM
	an milla naziliyan diji mma ama ozmaza sa ayan nazilan nijiyo anga Marasaman ana sa a an ana sa ata 🦠 💉
	is Inst. im Lebeder AS USSR
Physica	es Inst. in Lebeler 145 1150
my	
	"我们看你们,才是好了我,我们们没有一个人的孩子,这么是一个人,不是一样的。"
	or the first of the section of the contract of
B 회사 [경소 및 소. 기념, 역 2년 회사 및 소스트	人名西西克克克特 化多二十二十二十二十二二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
	- Althory the part and the control of the control
THE PERSON OF TH	

21 (8)

AUTHORS: Apalin, V. F., Dobrynin, Yu. P.

SOV/89-7-4-11/28

(Deceased), Zakharova, V. P., Kutikov, I. Ye., Mikaelyan, L. A.

TITLE:

Number of Neutrons Emitted by U235 in The Mean

Fission

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 4, pp 375-376 (USSR)

ABSTRACT:

The triple fission of heavy nuclei with emission of aparticles is a very rare and comparatively little investigated phenomenon. The ~-particle spectrum is then continuous, has a broad maximum at an energy of about 15 Mev, and extends up to 28 Mev. The α-particles are essentially emitted in a direction that is perpendicular to that of the departure of the fragments. Some clearness might be obtained with respect to the initial stages of fission processes by investigating triple fission. It is interesting that the boundary of the energy spectrum of α-particles (28 Mev) is noticeably higher than the value that might be furnished by the forces of Coulomb repulsion of the uranium nucleus. According to the authors' opinion, investigation of the characteristics of triple fission as a function of the ratio of the fragment masses and investigation of the energy balance is of great interest. The quantity of neutrons

Card. 1/3

The Mean Number of Neutrons Emitted by U^{235} in a SOV/89-7-4-11/28 Triple Fission

flying away in fission is a measure for the excitation of the fragments. The authors therefore determined the average number v of neutrons emitted in a triple fission of the compound nucleus U236. The investigation was carried out on an electron beam of a VVR-reactor. A U235 layer of 0.7 mg/cm2 thickness was applied to the central electrode of the double ionization chamber. Counting the fission fragments is briefly described. The mean lifetime of the neutrons in the scintillator was 11 microseconds. A total of 5,000 cases of triple fission was recorded. The average number of neutrons per triple fission is 1.77 ± 0.09. If the thickness of the aluminum filter amounts to 35 m, the system recorded triple fissions in which α-particles with an energy of more than 9 Mev fly off. The authors deemed it to be of essential importance to clear up the connection between ♥ and ∞-particle energy. This dependence was measured by means of an aluminum filter of 135 μ thickness. The apparatus recorded only such cases of triple fission in which caparticles with an energy of more than ~ 22 Mev were emitted. The counting rate amounted to 40 coincidences per hour.

Card 2/3